

U.S.S.N. \*

Filed: \*

MARKED UP VERSION OF AMENDMENTS PURSUANT TO 37 C.F.R. § 1.121

**Clean Version of Amended Claims**  
**Pursuant to 37 C.F.R. § 1.121(c)(1)(ii)**

1. (Five times amended) A method for altering fertility or treating a reproductive disorder in a female mammal in need of treatment thereof comprising  
administering a compound altering lipoprotein, LDL, HDL or cholesterol levels in the mammal in an amount effective to alter fertility or treat a reproductive disorder in the mammal.
2. The method of claim 1 wherein the compound alters SR-BI expression in the tissue.
3. The method of claim 1 wherein the compound alters binding of SR-BI to high density lipoprotein including cholesteryl ester or other lipoproteins.
4. (amended) The method of claim 2 wherein the compound decreases SR-BI expression in a tissue of the mammal.
5. (amended) The method of claim 2 wherein the compound increases SR-BI expression in a tissue of the mammal.
6. (amended) The method of claim 3 wherein the compound decreases SR-BI binding to lipoprotein or transfer of cholesteryl ester in a tissue of the mammal.
7. (amended) The method of claim 3 wherein the compound increases SR-BI binding to lipoprotein or transfer of cholesteryl ester in a tissue of the mammal.
8. The method of claim 1 wherein the mammal is a female and the compound is administered in an amount effective to prevent normal reproductive function.
9. (amended) The method of claim 1 wherein the mammal has a disorder characterized by an overproduction of steroids.

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10. (amended) The method of claim 1 wherein the mammal has a disorder characterized by an underproduction of steroids.

12. The method of claim 1 wherein the mammal has a disorder which can be treated by decreasing production of steroids.

15. The method of claim 1 wherein the compound differentially alters the activity of, or expression of, SR-BI in different tissues.

16. The method of claim 11 wherein the compound increases SR-BI expression in reproductive tissues and decreases or does not increase SR-BI expression in liver.

19. The method of claim 1 wherein the compound is an antibody to SR-BI.

20. The method of claim 1 wherein the compound is a drug that decreases production of steroids via selective binding to SR-BI.

21. The method of claim 20 wherein the compound decreases cholesterol levels to decrease steroid levels.

22. The method of claim 21 wherein the compound inhibits cholesterol transport.

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